

# Technical specifications



Model	Caspian Integrated Amplifier	Caspian Streaming Amplifier
<b>Connectivity Summary</b>		
<b>Analogue Inputs</b>	2x RCA Stereo (A1, A2), 1x Balanced XLR (A3)	2x RCA Stereo (A1, A2), 1x Balanced XLR (A3)
<b>Digital Inputs</b>	2x Coax (D1, D2) 2x Optical (D3, D4) Bluetooth Audio	2x Coax (D1, D2) 2x Optical (D3, D4) Bluetooth Audio BluOS HDMI eARC
<b>Analogue Outputs</b>	1x Balanced XLR (Pre1), 1x RCA Stereo (Pre2), 1x RCA Stereo (Pre3)	1x Balanced XLR (Pre1), 1x RCA Stereo (Pre2), 1x RCA Stereo (Pre3)
<b>Amplifier Output</b>	1x Pair of Speaker binding posts (L&R)	1x Pair of Speaker binding posts (L&R)
<b>Other Inputs / Outputs</b>	Wi-Fi 4, BLE, 12V Trigger, Wired IR	Gigabit Ethernet RJ45, W-Fi 5, Wi-Fi 4, BLE, 12V Trigger, Wired IR
<b>Power</b>	IEC C14, Fused 6.2AT	IEC C14, Fused 6.2AT
<b>User Interface</b>		
<b>Primary Interface (on unit)</b>	Dynamic Control Dial (with haptic feedback) to control volume, inputs & power	Dynamic Control Dial (with haptic feedback) to control volume, inputs & power
<b>Secondary Interface (on unit)</b>	-	Backward, Play/Pause, Forward
<b>Remote Control</b>	Black, 15 button IR remote. Bead blasted & anodised aluminium extruded case with laser etched logo.	Black, 15 button IR remote. Bead blasted & anodised aluminium extruded case with laser etched logo.
<b>Power Amplifier Section</b>		
<b>Power Amplifier Technology</b>	Dual Mono Euphoria Amplifier	Dual Mono Euphoria Amplifier
<b>Amplifier Class</b>	AB	AB
<b>Output Power, 8 Ohms (235VAC @ 1% THD, both channels driven)</b>	105W	105W
<b>Output Power, 4 Ohms (235VAC @ 1% THD, both channels driven)</b>	200W	200W
<b>THD+N (1W @ 1kHz Both Channels driven)</b>	<0.007%	<0.007%
<b>Gain</b>	29dB	29dB
<b>Signal to Noise (1W/8R 2Vrms A1, both channels driven)</b>	>85dB	>85dB
<b>Gain Matching</b>	<0.5dB	<0.5dB
<b>Frequency Linearity (20Hz - 20kHz)</b>	+/-0.25dB	+/-0.25dB
<b>Power Supply</b>	600VA / 36,400uF per Rail	600VA / 36,400uF per Rail
<b>Phono Section</b>		
<b>Inputs</b>	MM	MM
<b>Gain MM</b>	53dB	53dB
<b>Gain Adjustment MM</b>	Low (-6dB), Mid (0dB default), High (+6dB)	Low (-6dB), Mid (0dB default), High (+6dB)
<b>Input Impedance MM</b>	47k ohms/100pF	47k ohms/100pF
<b>RIAA response accuracy MM</b>	+/-0.3dB 20Hz - 20kHz	+/-0.3dB 20Hz - 20kHz
<b>Rapture DAC</b>		
<b>DAC Technology</b>	Rapture DAC, Dual Mono Balanced	Rapture DAC, Dual Mono Balanced
<b>Format Support</b>	PCM	PCM
<b>Sampling Rate</b>	up to 24bit / 192kHz	up to 24bit / 192kHz
<b>Pre-Amplifier Section (Amp, Pre1, Pre2)</b>		
<b>Volume Control Technology</b>	Hybrid Digital Analogue	Hybrid Digital Analogue

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Volume Control Matching	<0.25dB	<0.25dB
THD+N (3.9Vrms, A-Weighted)	<0.0008%	<0.0008%
Signal to Noise Ratio (3.9Vrms, A-Weighted)	>108dB	>108dB
Maximum Output Level	3.9Vrms	3.9Vrms
Supported Features	Pre-Output, Line Level Output (Fixed Level), Sub-Woofer Output (Low-Pass Filtered), Intelligent DSP	Pre-Output, Line Level Output (Fixed Level), Sub-Woofer Output (Low-Pass Filtered), Intelligent DSP
<b>Pre-Amplifier Section (Pre3)</b>		
Volume Control Technology	Digital	Digital
Volume Control Matching	<0.25dB	<0.25dB
THD+N (3.9Vrms, A-Weighted)	<0.003%	<0.003%
Signal to Noise Ratio (3.9Vrms, A-Weighted)	>108dB	>108dB
Maximum Output Level	3.9Vrms	3.9Vrms
Supported Features	Pre-Output, Line Level Output (Fixed Level), Sub-Woofer Output (Low-Pass Filtered), Intelligent DSP	Pre-Output, Line Level Output (Fixed Level), Sub-Woofer Output (Low-Pass Filtered), Intelligent DSP
<b>Bluetooth</b>		
Protocol	A2DP Audio Profile	A2DP Audio Profile
Codecs	SBC, aptX & AAC	SBC, aptX & AAC
Range	>15m	>15m
<b>Digital Inputs</b>		
Coax Inputs (D1, D2)	up to 24bit / 192kHz (Stereo)	up to 24bit / 192kHz (Stereo)
Optical Inputs (D3, D4)	up to 24bit / 192kHz (Stereo)	up to 24bit / 192kHz (Stereo)
HDMI ARC & eARC	No	Yes (2.0)
<b>Analogue Inputs</b>		
Maximum Input Level	6.7Vrms	6.7Vrms
Music Sense	A2 Input	A2 Input
AV Mode	A2 Input	A2 Input
<b>BluOS Section</b>		
BluOS Streaming Supported	No	Yes
Audio Formats	-	MP3, AAC, WMA, OGG, WMA-L, ALAC, OPUS
Hi-Resolution Audio Formats	-	MQA, FLAC, WAV, AIFF, Supports converted DSD playback via the desktop app only.
Sampling Rate	-	up to 192kHz
Bit Depth	-	16 - 24
Network Connectivity	-	"Gigabit Ethernet RJ45, Wi-Fi 5"
Supported Network File Storage Protocol	-	Server Message Block (SMB)
USB	-	1x Type-A port for connection to USB memory stick (FAT32 or NTFS formatted) and supported peripherals
Supported Operating System	-	Music playback from network shares on the following desktop operating systems: Microsoft Windows XP, 2000, Vista, 7, 8 to current Windows Operating Systems and macOS versions**
Mobile Application	-	Free BluOS Controller App available for download from the respective App stores of Apple iOS devices (iPad, iPhone and iPod), Android devices, Kindle Fire and Windows or macOS desktops
Supported music services and partners	-	Over 20 natively integrated streaming services. For more information go to <a href="https://bluos.io/">https://bluos.io/</a>
Third Party Certified Services	-	Apple Airplay, Spotify Connect, Tidal Connect
ROON Ready	-	TBC
Control Integrations	-	Creston, Control4 (OS3), Control4 (OS2), RTI, URC, BluOS URC Driver, URC, Lutron, NICE, GIRA, BluOS Integration Utility, BluOS Custom Integration API
<b>Maestrounite</b>		
Maestrounite Supported	Yes	Yes
Network Connectivity	Bluetooth LE Wi-Fi 4 (Only connects for Over-the-Air Updates)	Bluetooth LE Wi-Fi 4 (Only connects for Over-the-Air Updates)
Mobile Application	iOS, Android	iOS, Android
Over-the-Air Updates	Firmware Updates are available via the Maestrounite configured Wi-Fi connection. This can be setup to connect & update on user request or during periods of inactivity.	Firmware Updates are available via the Maestrounite configured Wi-Fi connection. This can be setup to connect & update on user request or during periods of inactivity.
<b>Other</b>		
Wired IR Input	5 - 14V, Mono 3.5mm jack plug, any polarity	5 - 14V, Mono 3.5mm jack plug, any polarity

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<b>12V Trigger Input</b>	5 - 14V, 3.5mm jack dual polarity (On / Standby)	5 - 14V, 3.5mm jack dual polarity (On / Standby)
<b>12V Trigger Pass-through</b>	3.5mm jack Pass through from input only	3.5mm jack Pass through from input only
<b>Nominal Mains Voltage</b>	Auto-Selecting Power Supply, 100-120VAC & 220-240 VAC	Auto-Selecting Power Supply, 100-120VAC & 220-240 VAC
<b>Power Consumption</b>	Max 610VA, Standby 0.5W, Network Standby 2W (Standby Plus, allows fast boot)	Max 610VA, Standby 0.5W, Network Standby 2W (Standby Plus, allows fast boot)
<b>Mechanical</b>		
<b>Available Finishes</b>	Silver, Black	Silver, Black
<b>Construction</b>	Extruded and machined Aluminium front & top cover with extruded Aluminium heatsinks.	Extruded and machined Aluminium front & top cover with extruded Aluminium heatsinks.
<b>External Dimensions with all accessories fitted (H x W x D)</b>	93 x 432 x 378mm (3 <sup>11</sup> / <sub>16</sub> x 17 x 14 <sup>7</sup> / <sub>8</sub> "*) See downloads for CAD drawings	93 x 432 x 378mm (3 <sup>11</sup> / <sub>16</sub> x 17 x 14 <sup>7</sup> / <sub>8</sub> "*) See downloads for CAD drawings
<b>Weight (Product, Each)</b>	15.2 kg (33 lb 8 oz)	15.5 kg (34 lb 3 oz)
<b>Sold As</b>	Single	Single

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